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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/4)				
SALTERP47APCP1	International filing date (day/mo		Priority date (day/month/year)			
International application No.			· · · · · · · · · · · · · · · · · · ·			
PCT/US04/24291	27 July 2004 (27.07.2004)		28 July 2003 (28.07.2003)			
International Patent Classification (IPC)	or national classification and if C					
IPC: A61M 15/08 (2006.01) USPC: 128/207.18,206.11,203.22						
Applicant						
SALTER LABS						
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.						
2. This REPORT consists of	nsists of a total of $\frac{3}{2}$ sheets, including this cover sheet.					
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).						
These annexes consist of a total of sheets.						
3. This report contains indica	ations relating to the following	; items:				
I Basis of the rep	oort					
II Priority						
III Non-establishn	ent of report with regard to novelty, inventive step and industrial applicability					
IV Lack of unity o						
V Reasoned state applicability; c	ment under Article 35(2) with regard to novelty, inventive step or industrial itations and explanations supporting such statement					
VI Certain docum						
VII Certain defects	in the international application					
VIII Certain observe	ations on the international application					
Date of submission of the demand	Da	ate of completion	of this report			
04 March 2005 (04.03.2005)		May 2007 (19.05.2	007)			
Name and mailing address of the IPEA/US		uthorized officer	11 00 0			
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents	Jı	ıstine Yu	Thirley for			
P.O. Box 1450 Alexandria, Virginia 22313-1450	!	elephone No. 571-7	27-3700			
Facsimile No. (571) 273-3201	1	_X				

Form PCT/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.	
PCT/US04/24291	

	Basis of the report
	With regard to the elements of the international application:*
1.	the international application as originally filed.
	the description:
	pages 1-33 as originally filed
	pages NONE, filed with the demand happens NONE, filed with the letter of
	the claims: pages 34-41, as originally filed
	pages NONE as amended (together with any statement) under Article 19
	Flad with the demand
	pages NONE, filed with the letter of
	the drawings:
	pages 1-16, as originally filed pages NONE, filed with the demand
	pages NONE , filed with the letter of
	the sequence listing part of the description:
ı	pages NONE as originally filed
	pages NONE, filed with the demand pages NONE, filed with the letter of
2	11 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	2. With regard to the language, all the elements marked above were a therefore a which the international application was filed, unless otherwise indicated under this item. These elements were available or furnished to this Authority in the following language which is:
	These elements were available of furnished to this Authority in the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
	the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of a translation furnished for the pulposes of international content of the language of the la
	the language of publication of the international application (under Rule 48.3(b)). the language of the translation furnished for the purposes of international preliminary examination (under Rules
	= 11 = 7\
	55.2 and/or 55.3). 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the
	 With regard to any nucleotide and/or animo actor sequence basis of the sequence listing: international preliminary examination was carried out on the basis of the sequence listing:
	contained in the international application in printed form.
	filed together with the international application in computer readable form.
	furnished subsequently to this Authority in written form.
	The state of the Authority in computer readable form.
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the
	international application as filed has been furnished.
	The statement that the information recorded in computer readable form is identical to the written sequence listing
	has been furnished.
	4. The amendments have resulted in the cancellation of
	the description, pages NONE
	the claims, Nos. NONE
	the drawings, sheets/ fig NONE
	5. This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).** beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
	beyond the disclosure as filed, as indicated in the supplemental Box (teals you have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in * Replacement sheets whit is the sheet sheets which is the sheet sheet sheet sheets which
	* Replacement sheets which have been furnished to the receiving Office in response to an invitation and the receiving Office in response to an invitation and the receiving Office in response to an invitation and the receiving Office in response to an invitation and 70.17). this report as "originally filed" and are not annexed to this report. ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.
	** Any replacement sheet containing such amendments must be rejerred to analysis.

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US04/24291

NO

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement						
1. STATEMENT	·					
Novelty (N)	Claims 3,7,10,13,17,21-28,30,and 32-43	YES				
2101025) (11)	Claims 1,2,4-6,8-9,11,12,14-16,18-20,29,and 31	NO				
Inventive Step (IS)	Claims NONE	YES				
,	Claims 1-43	NO				
Industrial Applicability (IA)	Claims 1-43	YES				

Claims NONE

2. CITATIONS AND EXPLANATIONS

Claims 1,2,4-6,8-9,11,12,14-16,18-20,29, and 31 lack novelty under PCT Article 33(2) as being anticipated by Payton US 4,660,555.

In figures 10-12, Payton discloses a nasal cannula for supplying a respiratory gas to a patient. The nasal cannula comprises a pair of supply lines (see abstract) each having a head at one end thereof with a discharge opening (20a) therein for discharging a respiratory gas. The opposite end of each of the pair supply lines is connected to a respiratory gas source (41). Each head is sized to be snugly received and retained within one of the nasal cavities of the patient (fig.1) while forming at least one leakage passage having a cross sectional open area (see fig.1) to maintain a sufficient positive back pressure in the patient during breathing. Payton in figure 10-12 continues to discloses that the exterior surface of the head has a plurality of elongated troughs (45) formed therein for partially defining a plurality of leakage passages therein to facilitate exhausting of any excess respiratory gas and inhalation of any room air required by the patient (see col.6 lines 45-51).

Claims 3,7,10,13,17,21-28,30, and 32-43 lack an inventive step under PCT Article 33(3) as being obvious over Payton US 4,660,555 in view of Hickle et al. 2002/0017300.

Payton discloses the claimed invention as applied for claims 1,2,4-6,8-9,11,12,14-16,18-20,29, and 31. Payton however does not disclose depicting between six and eight elongated troughs, a heater for heating the respiratory gas, a humidifier for supplying humidity of the respiratory gas and a pressure sensor. However, Hickle, which also relates to a nasal cannula, teaches that it was known at the time of the present invention to incorporate a heater, a humidifier and a pressure sensor for providing effective ventilator monitoring (paragraph 0012). Regarding the limitation of between six and eight elongated troughs, this limitation would have been obvious to one of ordinary skill in the art given the fact that Payton specifically discloses four troughs.

Claims 1-43 meet the criteria set out in PCT Article 33(4), and thus have industrial applicability because the subject matter claimed can be made or used in industry.